PROFESSOR.

"The History of Veterinary Hedicine in the U.S.S.R." V.M.Kerepev.
Reviewed by S.B.Bakhenev. A.P.Studentsev, A.A.Petukhevskii.
Veterinariia 33 ne.1:83-67 Ja '56. (MURA 9:4)

1.Kiyevskiy gosudarstvennyy veterinarnyy institut (for Bashenev).
2.Kasanskiy gosudarstvennyy veterinarnyy institut (for Studentsev).

(VETERIHARY MEDICINE)

BAZHENOV. S.V., dotsent; SIVOLOZHSKIY, T.Ya., assistent; LITVIN, N.M., starshiy laborant, veterinarnyy vrach.

New manal on veterinary pharmacology ("Veterinary pharmacology". Reviewed by S.V. Bazhenov, I.IA. Sivolozhskii, M.M. Litvin). Veterinariia 33 no.6:88-90 Je '56. (MIRA 9:8)

1. Dafedra farmakologii Kiyevskogo gosudarstvennogo veterinarnogo instituta.

(Veterinary materia medica and pharmacy)

BAZHENOV, S.V., detsent.

Tasks of voterinary texicology for the sixth five-year plan. Voterinariia 33 no.9:20-22 S '56. (MLRA 9:10)

1.Kiyevskiy veterinarayy institut. (Veterinary medicine) (Peisens--Physielegical effect)

BAZHEROV, Sorgoy Vasil'yevich; GOL'DSHTEYN, S.A., red.; CHUMAYEVA, Z.V., tekhn, red,

[Veterinary toxicology] Veterinarmaia toksikologiia. Isd.2., ispr. i dop. Moskva, Gos. isd-vo sel'khos. lit-ry, 1958. 392 p. (Veterinary toxicology) (Poisons) (MIRA 11:9)

BAZHENOV, S.V., dots.

One hundred and fifty years of advanced veterinary training in the U.S.S.R. (1808-1958). Veterinaria 35 no.11:74-75 H 158.

1. Ukrainskaya akademiya sel'skokhosyaystvennykh nauk.
(Yeterinary medicine—Study and teaching)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110016-6

"About veterinary biographies and bibliographies."

Veterinariya, Vol. 37, No. 10, 1960, p. 83

Why. Acas. Agric. So.

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110016-6

RODIONOV, P.V., prof.; BAZHENOV, S.V., prof.; SLAST'ON, M.I., dotsent (Kiyev)

"Medicinal plants and their use by the people" by M.A. Nosal', I.M. Nosal'. Reviewed by P.V. Rodionov, S.V. Bazhenov, M.I. Slast'on. Vrach. delo no. 3:147-148 Mr '61. (MIRA 14:4) (BOTANY, MEDICAL) (NOSAL', M.A.) (NOSAL', I.M.)

BAZHENOV, S.V., dotsent

"Biographical diptionary of workers in natural science and engineering," vols. 1-2. Reviewed by S.V.Bazhenov. Veterinariia 37 no.10:83-86 0 '60. (MIRA 15:4)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.
(Russia—Biobibliography)
(Veterinary medicine—Biobibliography)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110016-6

PAZHENOV, S. V., (Professor, Ekraimian Academy of Agricultural Sciences)

Valuable work on the history of veterinary medicine. (1)

Veterinariya vol. 38, no. 9, September 1961, pp. 87

ln "Trudy Vsesoyuznogo institute cksperimental noi veterinarii," V. XXIII, Moscow, 1959.

KALUGIN, V.I., kand.veterin.nauk; BAZHENOV, S.V., prof.; KRAPIVNER, L.M.

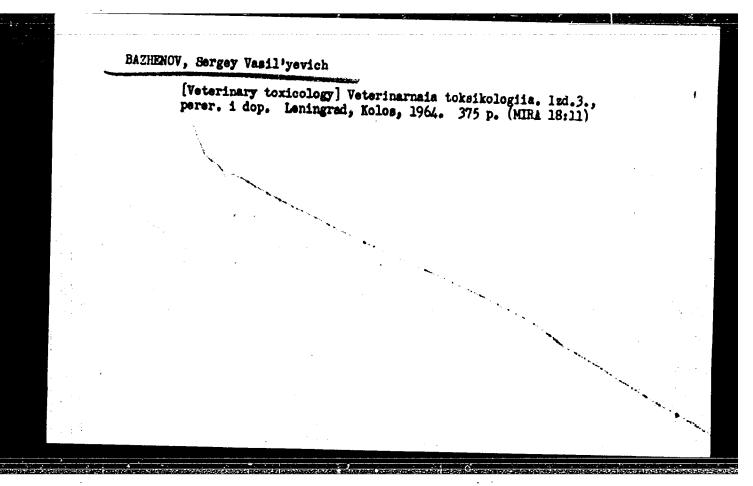
History of veterinary medicine. Veterinariia 40 no.9:77-82 S '63.

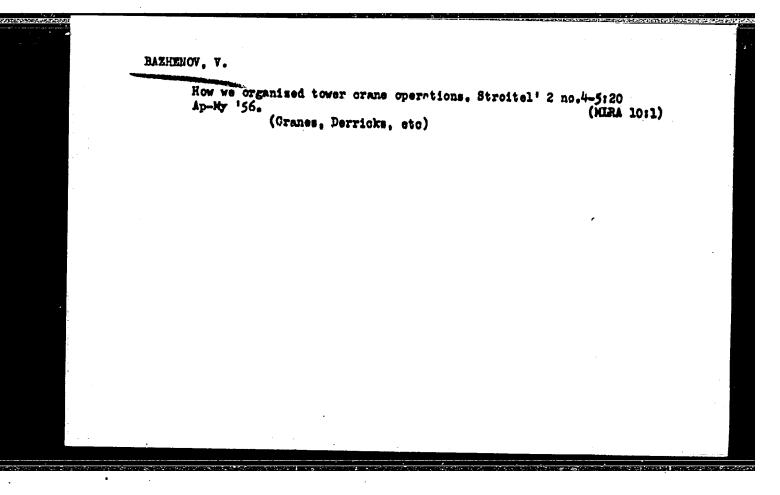
(MIRA 17:1)

BAZHENOV, S.V., prof.; BORSHOSH, A.V.

Book reviews and bibliography. Veterinaria 38 no.9:87-89 S '61. (MIRA 16:8)

1. Ukrainskaya akademiya sel'skokhosyaystvennykh nauk (for Bazhenov). 2. Starshiy veterinarnyy vrach tresta "Zakarpatles" Stanislavskogo soveta narodnogo khozyaystva (for Borshosh).

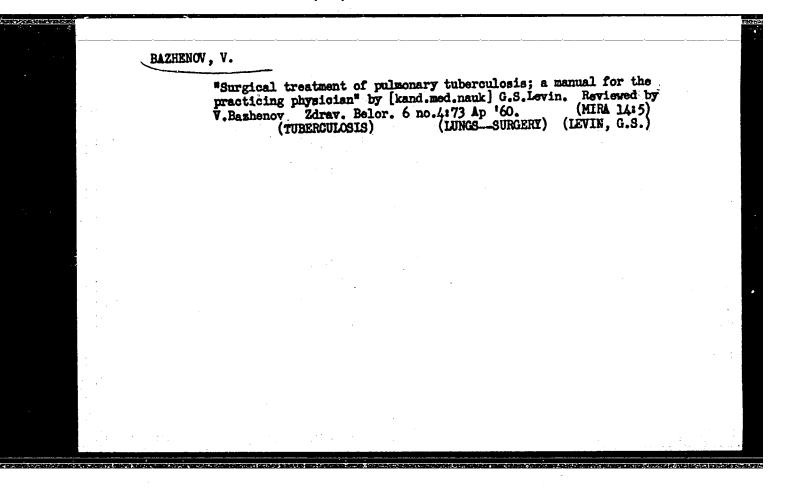




BAZHENOV, V., inch.

Simplify the structure of management in the construction industry. Sots.trud 5 no.3:125-126 Mr 160. (MIRA 13:6)

1. Otdel truda i zarabotnov platy Stalingradskogo sovnarkhoza. (Stalingrad construction industry)



ACC NR.AP6028568

SOURCE CODE: UR/0209/66/000/008/0042/0046

AUTHOR: Koval', A. (Candidate of technical sciences); Bazhenov, V.; Straut, Ye.

ORG: none

TITLE: From model to lunar vehicle

SOURCE: Aviatsiya i kosmonavtika, no. 8, 1966, 42-46

TOPIC TAGS: nerospace conference, lunar surface, lunar surface vehicle, scale model

ABSTRACT:

The authors discuss the development of a mobile automatic lunar station (MALS), on the basis of papers presented by Soviet specialists at the first international space-technology conference, held in France in June 1966.

Building stands for perfecting the design elements on full-scale mock-ups will present many difficulties. Therefore, it will be more efficient to develop the design elements on MALS models under simulated lunar conditions. In this way, existing pressure chambers and other equipment can be used. Not only the lunar landscape but also the lunar surface

Card 1/4

ACC NR. AP6028568 should be simulated.

Taking the works of professors V. V. Sharonov and V. S. Troitskiy into consideration, as well as ata obtained by Luna-9, it is concluded that the lunar surface has a hard structure; from an analysis of Luna-9 data it is possible to conclude that the strength of the moon's surface is about 1 kg/cm². During its operation Luna-9 increased its inclination 6.5° and turned 3°. Although the reasons for this have not yet been determined, it can be assumed that the position change was somehow connected with the stoniness of the surface. The lunar surface in the Luna-9 landing area is dotted with numerous stones and clods of various sizes, from several centimeters to several decimeters. The Luna-9 landed in an 18-m-diameter, crater with a depth of about 0.7 m. The presence of several small craters with steep slopes (up to 55°) was noted. All of these lunar surface details must be taken into consideration in developing a mobile automatic lunar station.

The initial scales for modeling are length, modulus of elasticity, materials, and acceleration of gravity. All other scales (i.e., mass density, speed, forces, etc.) needed to develop an MALS model, and to convert the experimental results obtained from the study of an actual scale model of a

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lunar station, can be deduced from the three main scales mentioned above on the basis of the similarity of conditions. To have similar conditions, it is necessary that the MALS models and their undercarriages be made from materials with the same Poisson's ratio and coefficient of friction as those of the full-scale design. The gravity scale is determined by the experimental conditions. The final selection of model dimensions and materials is made, taking into account the overall dimensions and capabilities of the testing equipment, pressure chambers, and test ranges. The development of MALS models built to 1/6, 1/3, and 1/1 scales is discussed. If the dimensions of a model are decreased by six times, it is better to make the model from the same materials as the full-scale design. For the 1/6 scale model, the linear speed scale is equal to 1. Running tests as well as some operational tests of a 1/6 scale model can be carried out in a pressure chamber simulating the lunar vacuum. Due to the small value of the scale of mass, however, the development of a mobile model with such small overall dimensions, while retaining similarity, can create a number of difficulties.

It is considerably simpler to develop an MALS model on a scale of 1/3 or 1/2. In developing a full-scale model, the scale of mass should be six times smaller than full-scale mass. In this case, a full-scale undercarriage for the model is developed from full-scale materials. The re-Card · 3/4

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APPROVED FOR RELEASE: 06/06/2000

MANN, U.B. [Nann, W.B.]; SELIGER, O.G. [Seliger, H.H.]; BAZHENOV, V.A. [translator]; BOCHKAREV, V., red.; SAGURO, M.A., red.; VLASOVA, H.A., tekhm.red.

[Proparation and uses of standard radioactive specimens] Prigotovlenie i primenenie etalomnych radioaktivnych preparatov.

Moskva, Gos.isd-vo lit-ry v oblasti atomnoi nauki i tekhniki.

1960. 102 p. (MIRA 14:3)

(Radioactive substances--Standards)

BAZHENOV, VA

LATY SHEV, C.D

176

PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tarhkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UZSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. N. Lebanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Mishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Card 1/20

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. Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.; R. I. Khsmidov; Tech. Ed.; A. G. Babakhanova.

PURIOSE: The publication is intended for scientific workers and apecialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Feaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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Transactions of the Tashkent (Cont.)

SOV/5410

instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

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Taksar, I. M., and V. A. Yamushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

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·BAZHENOV, V.A.

PHASE I BOOK EXPLOITATION

sov/6333

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Articles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

PURPOSE: This book is intended for specialists in nuclear instrumentation.

COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

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	Bazhenov, V. A., V. V. Boohkarev, and T. N. Sokolova. ment of the Activity of Gaseous Preparations by Means of Gas-Pilled Counter	
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BAZHENOV, V.A.; BOCHKAREV, V.V. Absolute measurement of the activity of beta-redioactive liquids. Ism.tekh. no.1:55-57 Ja 162. (MIRA 14:12

(Radicactivity-Measurement)

(MIRA 14:12)

CIA-RDP86-00513R000204110016-6" APPROVED FOR RELEASE: 06/06/2000

S/115/63/000/002/008/008 E194/E155

AUTHORS:

Bazhenov, V.A., Bochkarev, V.V., and Sokolova, T.N.

TITLE:

Sorption effects in measuring the radioactivity of

gases

RERIODICAL: Izmeritel'naya tekhnika, no.2, 1963, 57-59

TEXT: In measuring the radioactivity of gases with gas-filled radiation counters, the absorption of β -radiation by the walls and end-effects cause errors which have both been thoroughly discussed, particularly in the non-Soviet literature. However, there are also two sorption effects: some of the material becomes firmly attached to the walls and remains there after the chamber has been nominally swept free; and some becomes temporarily attached to the walls during measurements, so disturbing them, but is afterwards released and swept out, so that the effect cannot be directly observed. Tests were made to determine the relative importances of these effects. A chamber, filled with a gas tagged with a source of β -radiation, has a thin mica window in one end over which is placed an end counter. The chamber also contains a layer of material of such a thickness as to absorb β -particles of maximum energy.

Sorption effects in measuring the ... S/115/63/000/002/008/008 E194/E155

Then if this layer is placed next to the window without breaking vacuum, the counter records only β -particles from substances attached to the inner surface of the mica and to the surface of the layer. It can be confirmed that radiation originating in the gas filling of the chamber is not being counted by withdrawing the layer and inserting an analogous layer between the mica window and the counter. This gives the background level. After sweeping the chamber, the background contamination due to irreversible sorption can be determined. The actual experimental chamber, made of duralumin, was 178 mm long and 50 mm diameter with a window of 1 cm². A disk with 12 positions could be placed at various distances in front of the window so that the material of the layer could be altered without breaking vacuum or changing the gas. gas used was CS2 tagged with S35 with a specific activity of 25 milliCurie per gram of liquid carbon disulphide. Surface sorption was studied on the following materials: teflon, mica, special lubricant for CS2, brass, aluminium, methylmethacrylate, polished and unpolished ebonite, rubber mastic and sheet vacuumrubber. The experimental procedures are described in some detail. The materials were found to fall into two groups: the first Card 2/3

Sorption effects in measuring the ... \$\frac{\\$5/115/63/000/002/008/008}{\\$E194/\\$E155}

instantaneously acquire a certain surface activity which then increases exponentially with time (PVC, ebonite, methylmethacrylate) The other group includes the remaining materials except the rubber mastic, in which surface activity instantaneously reaches a certain value which then remains constant. The relative sorptions of samples of the different substances, i.e. the percentage of the radioactivity picked up by 1 cm2 of the given surface to the activity of 1 cm3 of the chamber was; teflon 5; mica 5; brass 6.5; aluminium foil 6.5; methylmethacrylate 13; PVC 28; polished ebonite 30; rubber mastic 39; rubber 45; unpolished ebonite 65. For materials of the first group the calculation is made for an exposure time of 26 hours. From these data it is possible to assess the sorption of ${\rm CS}_2$ in particular experimental equipment. Thus the activity of CS2 sorbed on the walls of the measuring chamber filled with radioactive carbon disulphide was directly measured. A large proportion of the sorption was reversible and so is not revealed by background measurements after cleaning. The sorption effects are very considerable, and differ There are 4 figures. for different materials.

Card 3/3

BAZHENOV, V.A.; KHARUK, Ye.V.

Testing the permeability of pine wood to nitrogen and antiseptic solutions. Trudy Inst. lesa i drev. 65:20-47 '63. (MIRA 16:10)

UCOLEV, Boris Naumovich, dots., kand. tekhn. nauk; BAZHENOV, V.A., prof., doktor tekhn.nauk, retsenzent; SERGOVSKII, I.S., red.

[Testing wood and wood materials] Ispytaniia dreveriny i drevesnykh materialov. Moskva, Lesnaia promyshl., 1965. 250 p. (MIRA 18:4)

L 40905-66 EWT(1)/EWT(m)/FCC/EWP(t)/ETI IJP(c) GW/JD

ACC NR. AP6011373

SOURCE CODE: UR/0362/66/002/003/0308/0311

AUTHOR: Bazhenov, V. A.; Ivanova, R. N.; Miroshnikov, M. M.

ORG: none

TITLE: Determination of the mass of H₂O, CO₂, and O₃ in various layers of the atmosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 3, 1966, 308-311

TOPIC TAGS: atmospheric moisture, atmospheric ozone, carbon dioxide, atmospheric optics

ABSTRACT: A method is described for calculating the mass of absorbing gases (H₂O, CO₂, and O₃) along inclined paths which connect any two points in the atmosphere. The curvature of the earth and refraction are taken into account. The vertical distribution of the concentration of gases is assumed given. The magnitude of refraction is determined by the height variation of the index of refraction of air. A nomogram is plotted on the basis of information on the refraction curvature of an optical ray in the atmosphere. The nomogram is used to determine the height of the observer, the height of the radiation source, the zenith angle of observation, the zenith angle of radiation, and the distance between the observer and the radiation source. If any three of these geometric quantities are known, the remaining ones can be determined by using the nomogram. A formula is given for determining the mass of the absorbing gas. After

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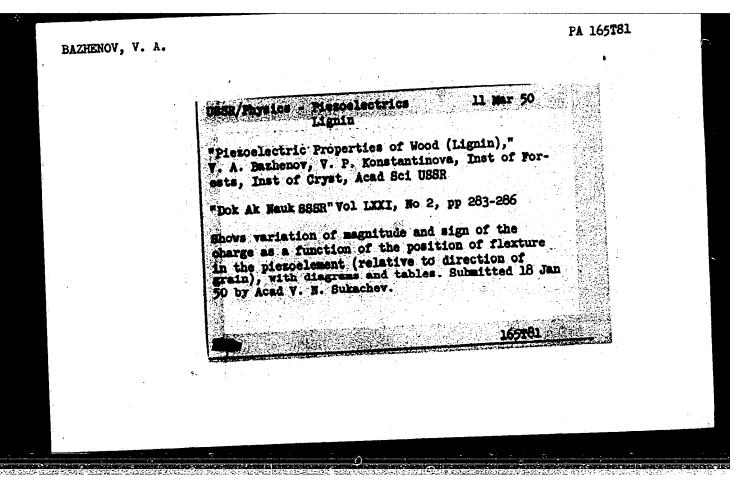
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I. 09154-67 - 7WT(m) SOURCE CODE: UR/0089/66/021/002/0141/0142 ACC 'NR. A. 7002769 AUTHOR: Bazhenov, V. A.; Bochkarev, V. V.; Golubev, Yu. M.; Lovin, I. V.; Sokolova, T. N.; Turkin, A. D. ORG: none TITLE: Possurements of activity of radioactive gases by means of spherical ionization chamber SOURCE: Atommaya energiya, v. 21, no. 2, 1966, 141-142 TOPIC TAGS: ionization chamber, radioactivity measurement ABSTRACT: A spherical, 24-cm ionization chamber with a copper barrier, filled with air under atmospheric pressure and operating in the -spectrum energy range (0.15 to 2.20 Nev) was used for measuring the gas activity in experiments with ¹³³Xe, CO₂ (labeled with ¹⁴C), ¹³¹Xe, ⁸⁵Kr, and ¹⁴Ar gases. The gas activity was determined by means of compensation counters. The order of error was about 2.5%. The results showed that only ¹⁴C, ⁸⁵Kr, and ⁴¹Ar with simple spectra could be used, while 133Xe and ¹³¹Xe, with their conversion electrons, could not be used. The average current magnitudes K per particle in the chamber were correlated with the theoretical values and the results agreed within 25 to 30%. Orig. art. has: 1 figure and 1 table. [NA SUB CODE: 18 / SUBM DATE: 19Jul65 / ORIG REF: 002 / OTH REF: 001 Card 1/1 nst UDC: 543.52.539.107.42

BAZHENOV, V. A. and V. Ye. VIKHROV

"The Moisture Content of Wood in the Trunks of Deciduous Trees" Doklady Akad. Nauk SSSR, 60, No. 3, 489-91 (1948)

Inst. Fourty, Acad Sci USSR



BAZHENOV, V. A.

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L Aug 50

"Influence of Swelling Upon Deformation of Prepressed Wood," V. A. Bazhenov, Yu. M. Ivanov, Timber Inst, Acad Sci USSR

"Dok Ak Mauk SSSR" Vol LXXIII, No 4, pp 663-666

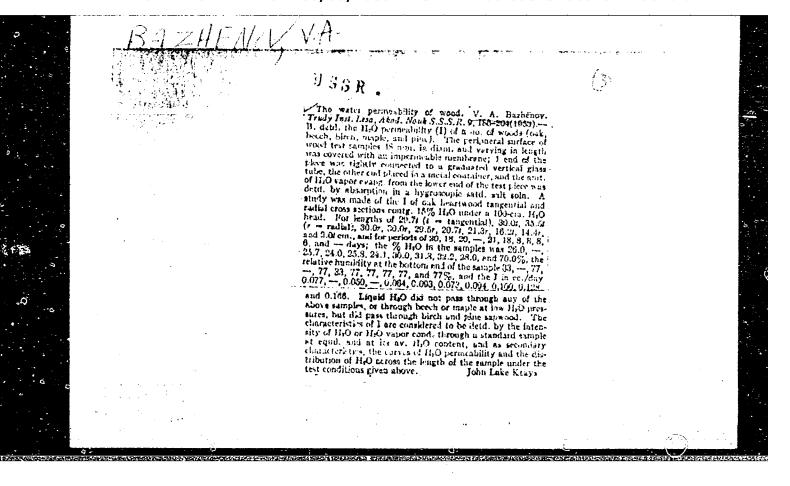
Disusses results of investigation into deformation and also strength of dry wood first subjected to pressure in dry state and then to swelling in water with subsequent drying (seasoning). Graphs give deformation (mm) vs load (kg) for various species, stress directions, etc. Submitted 9 Jun 50 by Acad V. N. Sukachev.

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BAZHENOV, V.A.

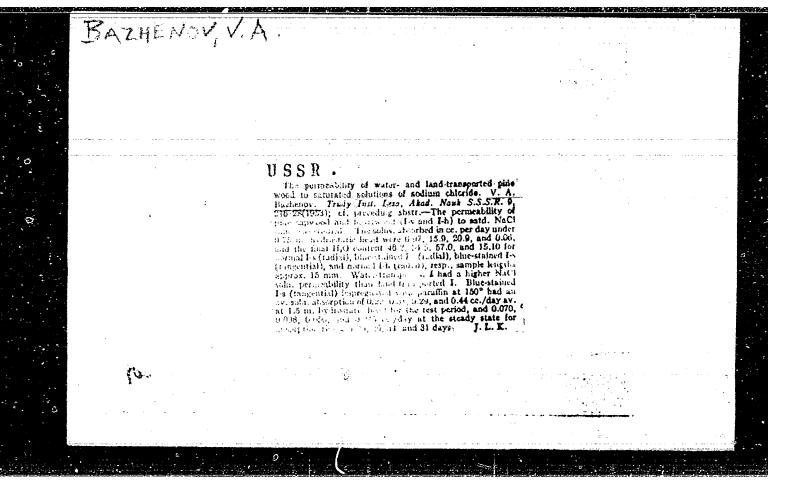
[Wood permeability to liquids and its importance for practical purposes]
Pronitsaemost' drevesiny shidkostiami i ee prakticheskoe snachenie. Noskva,
Isd-vo Akademii namk SSSR, 1952. 82 p. (MIRA 6:8)

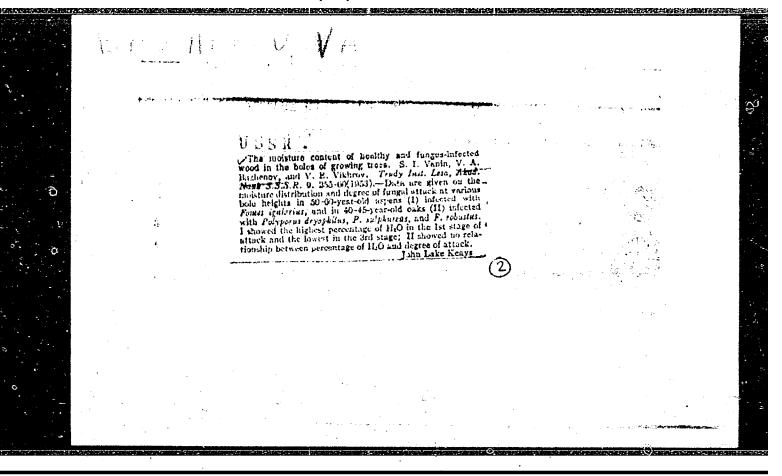
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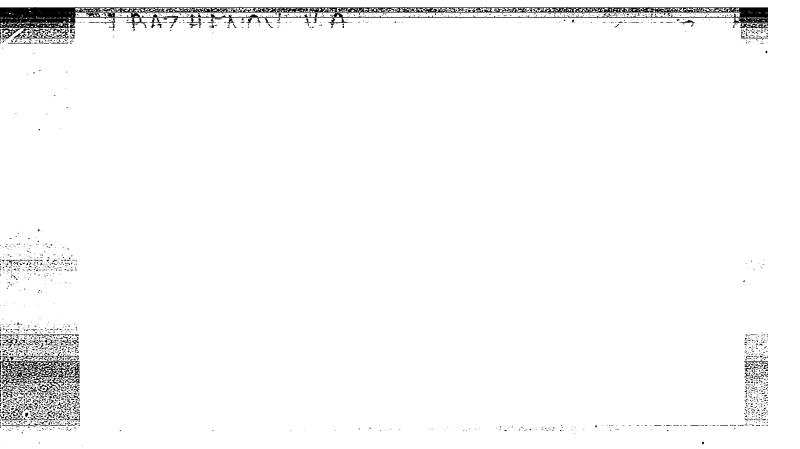


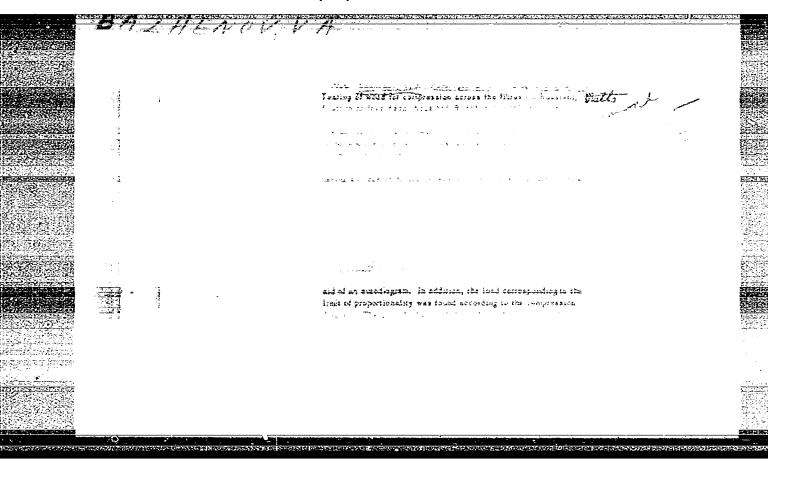
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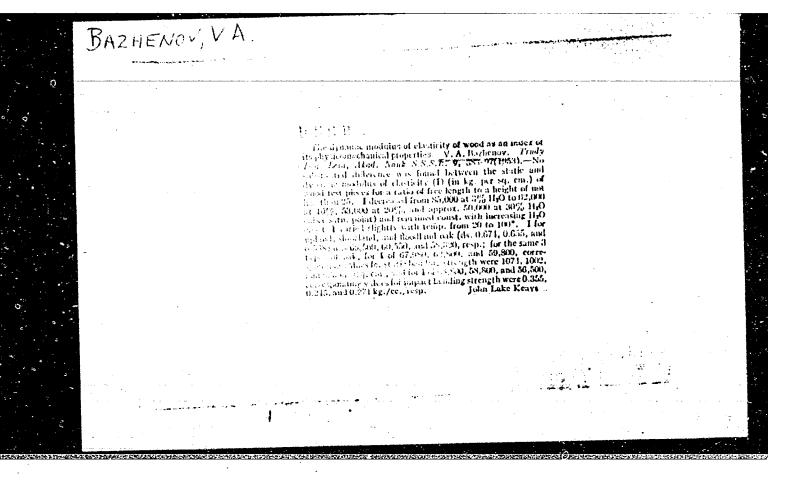












USSR/ Chemistry of High-Molecular Substances

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11927

Author

: Bazhenov V.A.

Inst

: Academy of Sciences USSE.

Title

: Piezolectric Properties of Wood and Cellulose-Products

Orig Pub : Izv. AN SSSR, Ser. fiz., 1956, 20, No 2, 226-230

Abstract : Considerable piezoelectric effects have been detected in all varieties of wood, and the harder varieties have lower values of piezoelectric modulus. The same piezoelectric properties are exhibited by plates of oriented, fibrous wood cellulose, while in unoriented plates a piezoelectric effect is absent. Slight, but well defined piezoelectric properties were found in non-fibrous films of cellulose hydrate and nitrocellulose. Equal symmetry of piezoelectric texture x: 2, in all the investigated samples, provided a basis for theoretical generalization of the experimental results: in all the investigated samples it is the cellulose molecules that bring about the piezoelectric properties. "Grains" of piezoelectric

Card 1/2

BAZHRHOV, V.A.

"Principles and methods of anatomical research in weed." A.A.IAtsenke-Khmelevskii. Reviewed by V.A.Bashenev. Bet.shur.41 me.2:284 F 156. (MIRA 9:7)

1.Institut lesa Akademii mauk SSSR. (Weed research) (IAtseake-Khmelevskii, A.A.)

Bazhenov, V.A.

USSR/Physical Chemistry - Crystals.

B-5

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3704.

Author : V.A. Bazhenov.

Inst :

: Wood Pulp as Piezoelectrical Texture.

Orig Pub: Kristallografiya, 1957, 2, No 1, 108-114.

Abstract: The influence of cellulose orientation in cell capsules of

wood cells on the piezoelectrical properties of wood pulp as of a piezoelectrical structure is discussed taking into consideration the form and the laminated structure of cells.

Card : 1/1

-38-

BAZHENOV. Valeriv Afanastyawich: IVANOV, Yu.M., prof., otv.red.; KUZNETSOVA, Ye.B., red.izd-va; ASTAF'YEVA, G., tekhn.red.

> [Piesoelectric properties of wood] P'esoelektricheskie svoistva drevesiny. Moskva, Isd-vo Akad.nauk SSSR, 1959. 238 p. (MIRA 12:12)

1. Chlen-korrespondent Akademii arkhitektury i stroitel'stva SSSR (for Ivanov). (Wood--Electric properties) (Piesoelectricity)

BAZHEROV, Valeriy Afanas yevich

"Piezoelectric Effect Of Wood."

report to be submitted for the Fifth World Forestry Congress, Seattle, Washington, 29-10 Sep 60

Deputy Director Inst. of Forestry & Wood Processing, Siberian Dept., Acad. of Sciences USSR, Krasnoyarsk.

BAZHENOV, V. A., Doc Tech Sci (diss) -- "The piezoelectric properties of wood-pulp, and the connection between them and its other physical properties and structure". Moscow, 1960, published by the Acad Sci USSR. 30 pp (Min Higher and Inter Spec Educ RSFSR, Moscow Forestry Engineering Inst), 175 copies (KL, No 10, 1960, 129)

BAZHENOV. V.A., doktor tekhn. neuk, prof., otv. red.; LOSKUTOVA, I.P., red.; SIMKINA, G.S., tekhn. red.

[Studies in the field of chemistry and chemical technology of wood] Issledovaniia v oblasti khimii i khimicheskoi tekhnologii drevesiny. Moskva, Izd-vo AN SSSR, 1963. 121 p.
(MIRA 16:12)

1. Akademiya nauk SSSR. Institut lesa i drevesiny. (Wood-Chemistry)

BAZHENOV, V.A.; KYTMANOV, A.V.

Symmetry of the piezoelectric properties of normal and compressed cellulose. Kristalografiia 8 no.5:791-793 S-0 '63. (MIRA 16:10)

1. Institut lesa i drevesiny Sibirskogo otdeleniya AN SSSR.

OSNACH, Nikolay A.eksandrovich. Prinimal uchastiye KOBUSHKIN, P.K., kand. fiz.-mat. nauk; BAZHENOV, V.A., red.

[Permeability and conductivity of wood] Pronitsaemost' i provodimost' drevesiny. Moskva, Lesnaia promyshlennost', 1964. 180 p. (MIRA 17:9)

1. Zaveduyushchiy kafedroy fiziki Ukrainskoy sel¹skokho-zyaystvennoy akademii (for Kobushkin).

Potentific base for climatic testing of critices and materials. Standartimatelia 29 to:7423-25 JI 166.

(MIRA 18:11)

1 00562-66 EWT(m)/EWP(w)/EWP(f)/EWP(v)/EWP(j)/EWP(k)/T-2/ETG(m)/ WW/EM/TUH

ACCESSION NR: AR5014702

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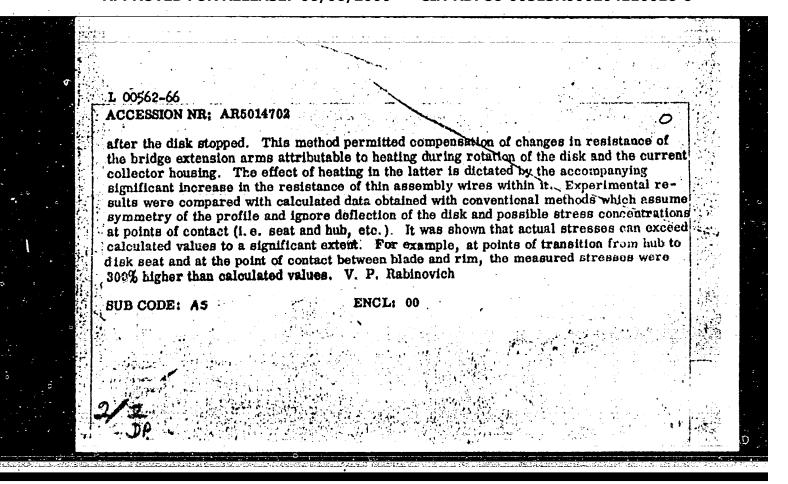
AUTHOR: Bazhenov, V. G.

TITLE: Stress concentrations in turbine disks

CITED SOURCE: Sb. Vopr. mekhan. i mashinostr. Kiyev, Kiyevsk. un-t. 1964, 88-93

TOPIC TAGS: gas turbine disk, stress concentration, contact point effect, asymmetric disk, extended disk hab

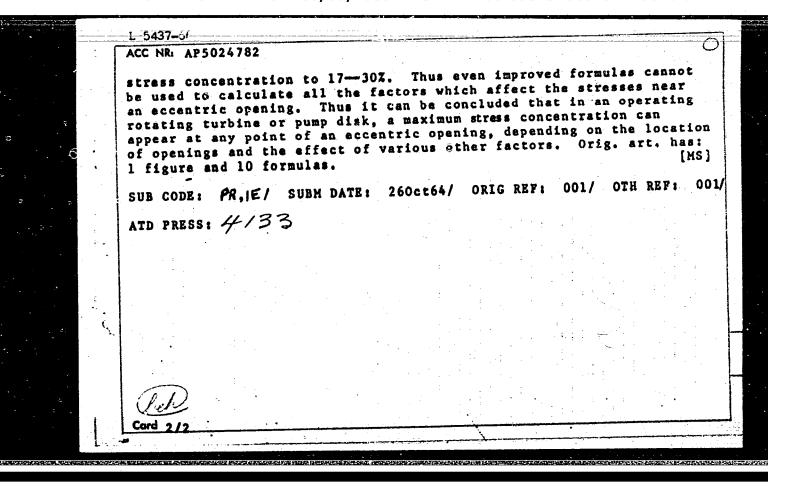
TRANSLATION: The author reports the results of an experimental analysis of the stressed state of a real gas turbing disk. The disk is asymmetric, with a diameter of 146 mm. It was cast complete with blades and has an extended hub, which descends into the disk seat in the form of a conical shell. The measurements employed strain-gauge resistor sensing elements (base 5 mm, resistance 50 mm), glued with BF-2 adhesive in radial and fangontial patterns. Connecting wires were fastened to the disk by strips of tracing paper similarly glued on. The gluing method was reliable at velocities up to 350 m/sec. Endications of each pickup and of the current collector channel corresponding to it were subject to a correction defined from differences between readings prior to starting and immediately



HAZHEROV, V.G., inzh.; KOZLOV, I.A., kand. tekhn. nauk

Using strain gauges for determining stressed state in concentration areas. Mashinostroenie no.5:90-92 S.0 165. (MIRA 18:9)

EnT(M)/EnP(w)/Enr(v)/I-2/Enr(k)/EIC(m) MM/EM L 5437-66 SOURCE CODE: UR/0021/65/000/009/1157/1160 ACC NR: AP5024782 AUTHOR: Pysarenko, H. S.—Pisarenko, G. S. (Academician AN UkrSSR); Bazhenov, V. H.—Bazhenov, Y. G.; Kozlov, I. A. ORG: Institute of the Problems of the Science of Materials, (Instytut problem materialognavatva AN URSR) TITLE: The stress concentration around eccentric openings in operating turbine and pump disks SOURCE: AN UkrRSR. Dopovidi, no. 9, 1965, 1157-1160 disk opening, stress concentration, stress TOPIC TAGS: turbine disk calculation, stress ABSTRACT: Theoretical formulas presently used to calculate the stress concentration around circular openings located in a rotating turbine or a nump disk at a distance from its center are analyzed and compared with formulas derived from experimental data. Theoretical values of the stress-concentration factor were as much as 30-34% lower than the experimental values, regardless of the diameter of the openings or their distance from the disk center or rim. On the basis of the experimental data, corrective coefficients for calculating the radial and tangential stress concentrations were derived which reduced the difference between the theoretical and experimental values of the Card 1/2 09010632



KOZLOV, I.A., kand. tekhn. nauk; BAZHENOV, V.G., inzh.

Investigating stress concentration in rotating disks beyond elastic limit. Vest. mashinostr. 43 no.12:15-17 D *63. (MIRA 17:8)

KOZLOV, I.A., kand.tekhn.nauk; BAZHENOV, V.G., inzh.

Testing stand for rotating disks of turbomachines. Mashinostroenie no.1:25-28 Ja-F '64. (MIRA 17:7)

KOZLOV, I.A., kand.tekhn.nauk; BAZHENOV, V.G., inzh.; LEBEDEV, I.V., inzh.; MATVEYEV, V.V., inzh. Effect of stress concentrators on the strength of rotating discs.

Energomashinostroenie 10 no.1:35-37 Ja '64. (MIRA 17:4)

Energomashinostroenie 10 no.1:35-37 Ja 164.

ACCESSION NR: AP4020094

8/0304/64/000/001/0025/0028

AUTHORS: Kozlov, I. A. (Candidate of technical sciences); Bashenov, V. G. (Engineer)

TITLE: Stand for testing rotating turbomachine disks

SOUPCE: Mashinostroyeniye, no. 1, 1964, 25-28

TOPIC TAGS: test stand, turbine wheel stress, destructive testing, generator PN 100, generator PN 290, generator A61 4, tachometer ICh6, oscillograph E0 7

ABSTRACT: A stand which permits testing of disks under stress, plastic deformation and destructive stresses at speeds up to 60 000 RPM is described. The testing installation is compartmented to permit easy changing of the different parts. A schematic of the installation is shown in Fig. 1 on the Enclosures. The tested disks are driven by a D.C. motor PN-400 through a two-stage gear reduction (4-ratio 1:4 and 6 ratio 1:15) which permits speeds to 90 000 RPM, although in practice the speeds are restricted by ball bearing limitations. The test section is connected to the drive through the coupling (9) and is contained in a steel test chamber (16) which limits the size of the test disks to less than 1000 mm in

Card 1/5

ACCESSION NR: AP4020094

diameter. The mounting detail of the disk is shown in Fig. 2 on the Enclosures and includes a cooling system for the supporting bearings with compressed air, water, and oil. The test facility is instrumented to permit dynamic stress and temperature measurements. The construction of the test facility permits experimental work on a large range of disk sizes and under different stress and temperature conditions. Orig. art. has: 2 figures.

ASSOCIATION: Institut metallokeramiki i spetssplavov AN USSR (Institute of Metal Ceramics and Special Alloys, AN UkrSSR)

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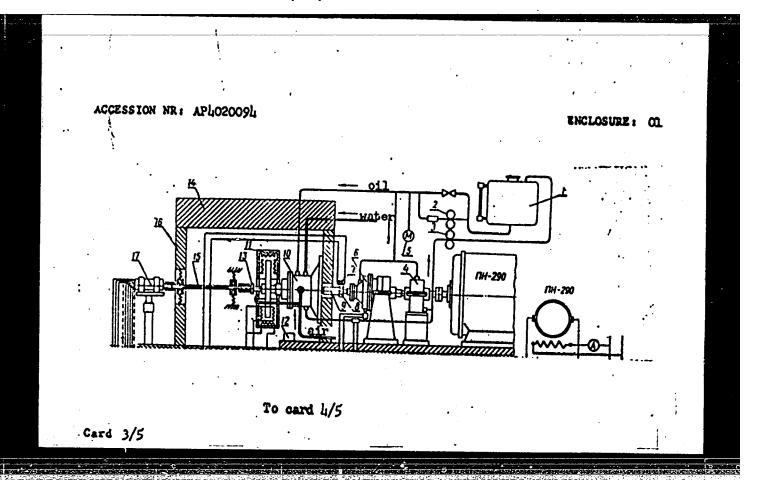
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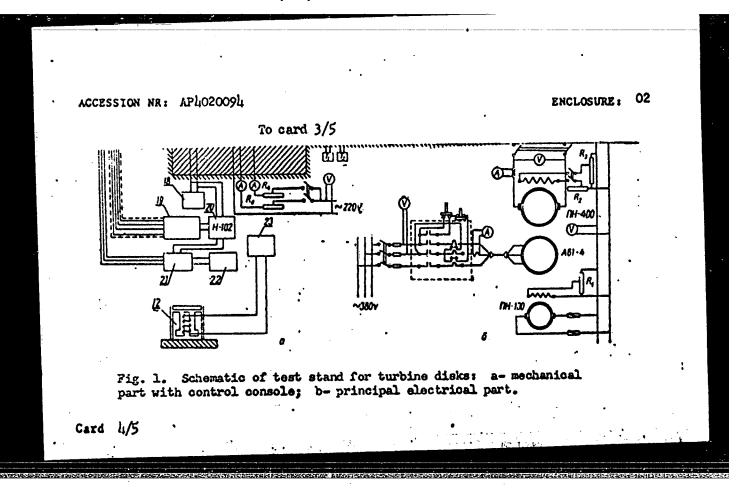
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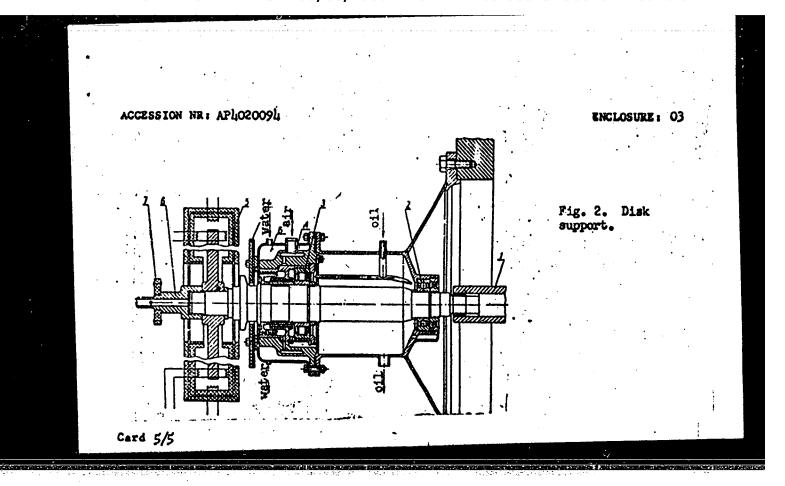
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TITLE: Stress concentration	in turbine disks
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	rbine disk, stress concentration, static test stand coorts the results of an experimental study of the stressed highline. These data are compared with calculated data
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PISARENKO, G.S. [Pysarenko, H.S.], akademik; BAZHENOV, V.G. [Enghance Vell-]; KOZLOV, I.A.

Concentration of stresses around eccentric holes in real turbine discs and pump discs. Dop. AN URSR no.9:1157-1160 165. (MIRA 18:9)

1. Institut problem materialovedeniya AN UkrSSR. 2. AN UkrSSR (for Pisarenko).

ACC NR: AM5028882

(N)

Monograph

UR/

Kozlov, Igor' Andreyevich; Bazhenov, Vladimir Grigor'yevich

Limiting carrying capacity of the parts of turbomachines (Predel'naya nesushchaya sposobnost' elementov turbomashin) Kiev, Naukova dumka, 1965. 166 p. illus., biblio. (At head of title: Akademiya nauk Ukrainskoy SSR. Institut problem materialovedeniya) 1300 copies printed.

TOPIC TAGS: turbine, turbine design, turbine disc

PURPOSE AND COVERAGE: This book is intended for engineers and scientists concerned with the strength of machine parts, as well as for professors and students at technical schools of higher education. Methods, based on experimental data, for determining maximum safe load of turbine parts are presented. On the basis of their own experimental data, the authors attempt to analyze methods for determining load-carrying capacities and to evaluate the errors resulting from the use of conventional premises and hypotheses for calculating strength. Recommendations, based on the authors' experiments, are offered to enable a more correct determination of the maximum safe load of structural members. Some of the equipment used for conducting the experiments are described. The experiments were carried out at the High-Temperature

Cord 1/2

ACC NR: AM5028882

Strength Department of the Institute for Problems in Science of Materials. Academy of Sciences USSR.

TABLE OF CONTENTS [abridged]:

Ch. I. Theoretical methods for determining load-carrying capacity -- 5
Ch. II. Experimental methods of investigating load-carrying capacities -- 32

Ch. III. Load-carrying capacity of rotating disks -- 60

Ch. IV. Effect of stress concentrations on the load-carrying capacity of structural members -- 115

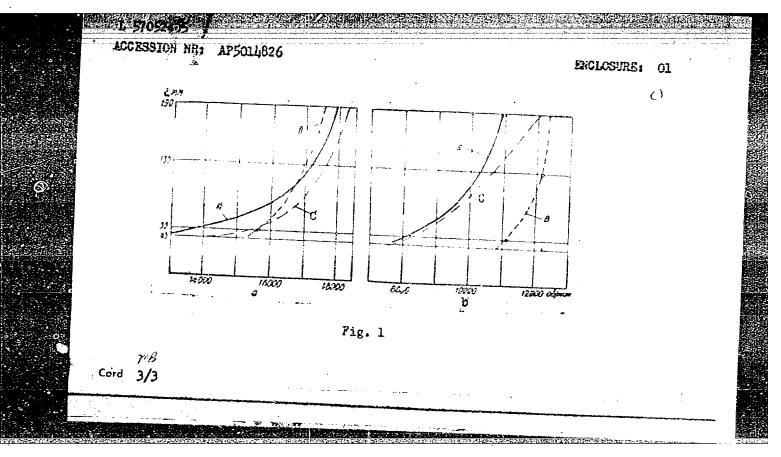
Ch. V. Load-carrying capacity of pump impellers -- 146

Bibliography -- 164

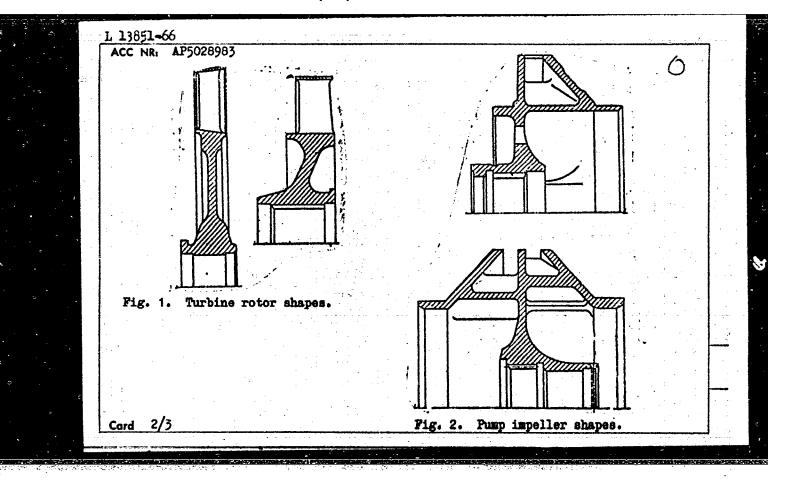
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Edh(b)/EMP(k)/EMP(s)/EMT(d)/EMT(m)/T-2/EMP(b)/EMA(d)/EMP(w)/EMP(t) L 57052-65 EM(h) UR/0198/65/001/005/0066/0071 ACCESSION NR: APSILERA ANTHUNG: Korlov I. A. (Kiev); Bazhenov, V. C. (Kiev); Leshchenko, V. H. (Kiev) TITLE: Devermining stresses and deformations in rotating disks beyond the proportionality limit SOURCE: Prikladnaya mekhanika, v. 1, no. 5, 1965, 66-71 TOPIC TASS: continuum mechanics / plasticity theory, elasticity theory, deformation rate, stress load, plastic deformation ARSTRACT: The deformation curves are obtained experimentally on rotating disks in Target of the material. Two types of steels are used for the disks of with grant of the rest of the second of the y means of accurate strain gauges (resistance type). The provention of means Hameters of 300 cm, internal dispeters of 20 cm, and a thickness of 30 cm. The experimental results were compared with two types of theoretical calculations. one, cased on theal the ry of placticity/the other based on the theory of small elastic-plastic informations. The results are something Fig. 1 to the backs are at the propagation of the plactic region versus the disk rotation rate. Curve A Cord 1/3

L 57052-55 2 ACCESSION NR: AP5014826 corresponds to the ideal plastic theory calculation, curve (, theory of small elastic-plastic deformations, and curve B, to experiments. These results show that the plastic theory underestimates the number of rotations at which plastic deformation sets in fer both disks. On the other hand, the small deformation theory does not reflect he true belayior of the material. Other curves are obtained for the stresses in the disks after exceeding the proportionality limit. These -time commence to the in the region of very smull electio-prestic deformations? the theory of blear plastically is leader, mit 1 , for the the of establishing material. Urig. Art. 785: la formulas and 1 (ignes. ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Institute for Problems in Study of Materials, AN UkrSSR) SUB CODE:於脛 ENCL: 01 SUBHITTED: 150ct6L OTHER: OCC NO REF 5071 003 Card 2/3



EMP(t)/EMP(x)/EMP(x)/EMP(b)/T/EMA(d)/EMP(e)/EMP(w)/EMP(t) RM/MH/JDACC NKI AP5028983 SOURCE CODE: UR/0122/65/000/009/0009/0012 AUTHORS: . Kozlov, I. A. (Candidate of technical sciences); Bazhenov, V. C. of technical sciences) ORG: none TITLE: Failure of rotating disks Vestnik mashinostroyeniya, no. 9, 1965, 9-12 TOPIC TAGS: turbine rotor, pump impeller, mechanical failure, material failure solid mechanical property ABSTRACT: To determine the relative merits of using the maximum normal stress of (calculated on the basis of elastic deformations) or the average stresses σ σ_{r}^{av} (based on complete redistribution of stresses) in predicting the failure of rotating disks, experiments were performed with flat disks and with complicated rotor shapes such as shown in Fig. 1 (turbine wheels) and Fig. 2 (pump impellers). The experiments were performed on the apparatus described previously by the authors (Stend dlya ispytaniya vrashchayushchikhaya diskov turbomashin. Sb. Mashinostroyeniye, No. 1, ITI, Kiyev, 1964) with flat disks of aluminum (AL4-T6), cast iron, metalloceramic \ and organic glass and with complicated rotor shapes of chromium-nickel steel. Card 1/3 621-226.001.5:539.4



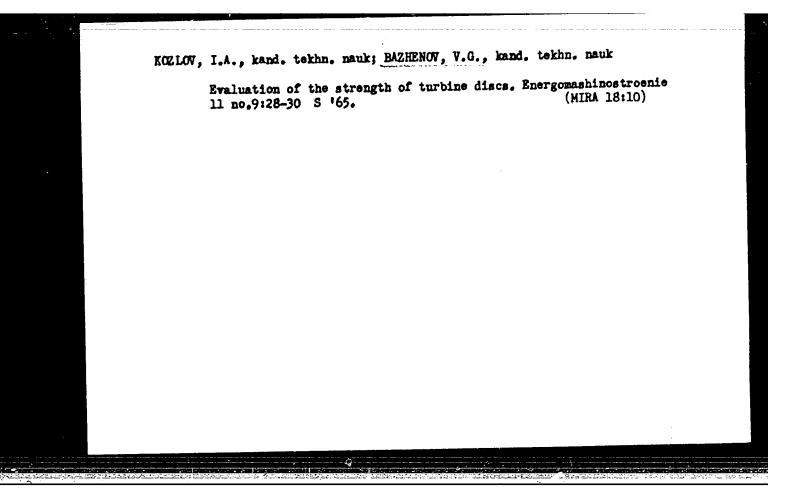
13851-66 ACC NR: AP5028983

with central and eccentric holes were used. For the latter, the theoretical stress σ_k^y at the stress concentrator $(k_T = 3 - \sigma_r/\sigma_t)$ and the effective stress σ_k^{ef}

$$q = \frac{k_{ef} - 1}{k_{rr} - 1}$$

were calculated. The plasticity of the material was specified by the residual elongation δ . The ratios of the above-mentioned stresses (where applicable) to the yield stress σ_b were tabulated at failure. It was found that: the relative strength σ_{\max}^y/σ_b of the turbine rotors ($\delta=3.0\%$) was the same (≈ 1.43) as that of flat cast iron disks ($\delta=0.25$), indicating the importance of geometry on strength; the high ductility ($\delta=12$) of the impellers permitted a much higher value (≈ 1.85) when the stress at the stress concentrations was used as σ_{\max}^y ; the stress σ_{\max}^{ef} , calculated with consideration of the plastic properties of the material, agreed well with the yield stress ($\sigma_{\max}^{ef}/\tau_b=1.0,\ 0.95$, and 1.11 for aluminum, cast iron, and steel respectively) but this calculation is impractical with complicated shapes; σ_{\max}^y is exact only for very brittle materials ($\delta=0$), while σ_{∞}^{av} or σ_{∞}^{av} are good only for ductile materials ($\delta>3-4\%$); stress concentrations must be considered regardless of ductility. Orig. art. has: 4 formulas, 1 table, and 6 figures.

SUB CODE: 13.26/SUBM DATE: none/ SOV REF: 006/ OTH REF: 001



=)/EMP(f)/EPF(n)-2/EMP(v)/T-2/EMP(k)/ETC(m)-6 LJP((N) SOURCE CODE: UR/0000/65/000/000/ AT6008674 Kozlov, I. A. (Kiev); Bazhenov, V. G. (Kiev); Leshchenko, V. M. (Kiev) AUTHORS: ORG: none TITLE: Investigation of the stressed condition and strength of gas turbine disks SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementov pri vysokikh i niakikh temperaturakh, 3d. Termoprochmost' materialov i konstruktsionnykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya. Kiev, Naukova dumka, 1965, 294-304 TOPIC TAGS: turbine blade, turbine wheel, gas turbine, stress analysis, fatigue strength ABSTRACT: The stress conditions and strength of chromium-nickel gas turbine disks of complicated profile were experimentally investigated and compared with theoretical results obtained by dividing the disk into circular sections (G. S. Pisarenko, i dr., Nekotoryye voprosy prochnosti lopatok i diskov gazovykh turbin, Izd-vo AN UkrSSR, 1962). The disks were cast integral with the turbine blades. It Stress profiles were obtained at 18 000 and 24 000 rpm, and maximum discrepancies of 18% with calculated values were observed (curves of the calculated and experimental stress profiles are presented) for symmetrical disks, and of 150--160% for conically shaped disks. Stress profiles were also obtained for the two types of disks just prior to failure (at 2 Card 1/2

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THORS: Balyuk, A. D. (Kiev); Bazhenov, V. G. tveyev, V. V. (Kiev)		77
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TLE: On the investigation of vibration dampi	ng of turbine blades on rotating	
OURCE: Vsesoyuznoye soveshchaniye po voprosan rochnosti materialov i konstruktsionnykh eleme emperaturakh, 3d. Termoprochnost' materialov i trength of materials and construction elements	konstruktsionnykh elementov (Thermal	 -
aukova dumka, 1965, 311-316 OPIC TAGS: turbine blade, turbine rotor, vib		
igh temperature effect		
BSTRACT: The experimental apparatus used for a rotating disks at high temperatures is descreteleration stand, as suggested by <u>G. S. Pisas</u> posobnosti bystrovrashchayushchikhsya diskov, pecial electronic speed indicator-regulator are efore starting the test. The damping curves	renko, and I. A. Kozlov (O neseshche, Ukrgostekhizdat, 1962), which has a nd which can be heated to 870970K	y
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SOURCE CODE: UR/3240/66/000/001/0103/0107

AUTHORS: Bazhenov, V. G.; Kozlov, I. A.; Leshchenko, V. M.

OMG: Institute for Problems in the Study of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Investigation of stressed condition in rotating disks with stress concentrators

SOURCE: Kharkov. Politekhnicheskiy institut. Energeticheskoye mashinostroyeniye no. 1, 1966. Teploobmen i gazodinamika (Heat transfer and gas dynamics), 103-107.

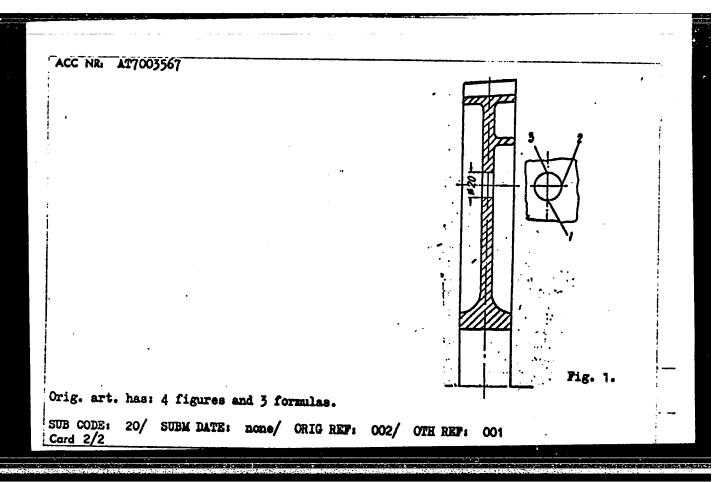
TOPIC TAGS: stress concentration, stress distribution, turbine disk

ABSTRACT: The stress distribution in a rotating disk with eccentric holes is investigated experimentally. The coefficient of stress concentration is defined by

 $K_{\bullet} = 3 - \frac{d}{b} - \frac{a_{r_1}}{a_{r_2}}$

where b is the closest distance between holes. The investigation is carried out with a turbine disk as shown in Fig. 1. The stresses were estimated by means of strain gauges and plotted graphically as a function of x/d. The calculated stresses at the three points 1, 2, 3 were found to be 9.25 and 15% lower than measured values. The experimental data show that the highest stress concentration occurs at point 2 for which $K_{\sigma} = 2.65$

Card 1/2



KOZLOV, Igor' Andreyevich; BAZHENOV, Vladimir Grigor'yevich;
SYTNIK, N.K., red.

[Limiting carrying capacity of the parts of turbomachines] Predel'naia nesushchaia sposobnost' elementov
turbomashin. Kiev, Naukova dumka, 1965. 166 p.

(MIRA 18:5)

BAZHENOV, V.I.; MODESTOVA, T.A., retsenzent; ZAV'YALOVA, A.N., red.;
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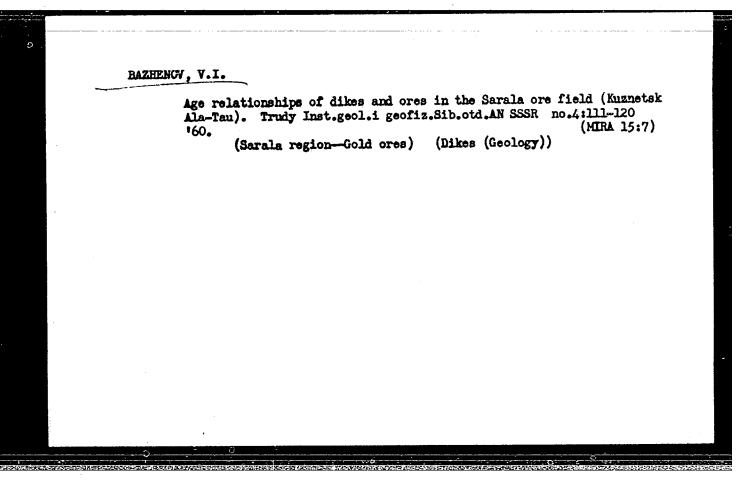
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to trigger a flip-flop. The positive pulse from this flip-flop is fed to a synchronous detector which is also supplied with a 87 Hz modulation voltage through a phase inverter and a phase shifter. A Helmholtz coil and a ZG-10 generator are used for the low frequency modulation of the magnetic field. The signal from the synchronous detector is limited, differentiated and is used to trigger a flip-flop whose positive pulses are integrated by an RC circuit. As soon as the voltage across the integrating network exceed a certain level, a multivibrator is switched and the contacts of a relay which feeds the stepping switch are opened, thereby changing the frequency of the autodyne. After 10 markers are obtained, the system returns it to its initial state. Another group of relay contacts closes the input to an electronic recording potentiometer and calibration markers are recorded on the chart. The maximum rate at which the field is covered is determined by the sensitivity and by the reaction time of the system, by the frequency of modulation and by the distance between markers and is approximately 1.5 sec 1. The accuracy of the markers depends on the stability of the autodyne frequency and is 1-10-2 cereted when the stability is 5-10-5. The circuit diagram with all component values is shown as well as a typical recording of the electron paramagnetic resonance spectrum. Orig. art. has: 2 figures.

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